

Optical tape length measurement for electronic tape recorders

Patent Number: DE3417426
Publication date: 1985-11-14
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Requested Patent: ☐ DE3417426
Application DE19843417426 19840511
Priority Number(s): DE19843417426 19840511
IPC Classification: G11B27/26 ; G11B15/08
EC Classification: G11B15/08, G11B27/26
Equivalents:

Abstract

An indication of the length of tape which has already run is very useful for audio tape recorders. In order to be able to realise something like this without mechanical parts, the tape itself must bear the appropriate control information. To protect the useful information on the tape, the control information is applied on the rear side of the tape. This is performed with the aid of marking lines at intervals of one metre, which are sensed by an optical sensor and electronically counted. In this way a methodical position indication of the tape and automatic positioning (by metres and centimetres) are made possible. The contactless method rules out any impairment being caused by abrasion.

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Nummer:

34 17 428

Int. Cl.4:

G 11 B 27/28

Anmeldetag:

11. Mai 1984

Offenlegungstag:

14. November 1985

- 9 -

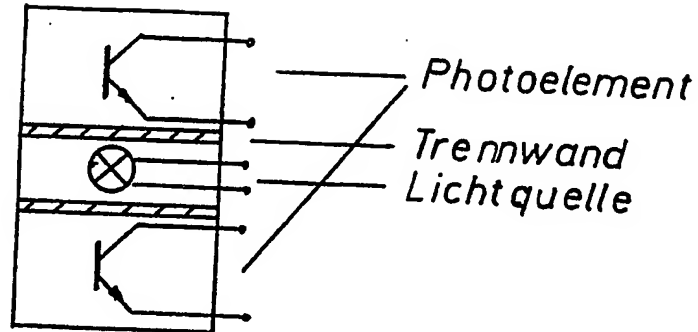


Fig. 1

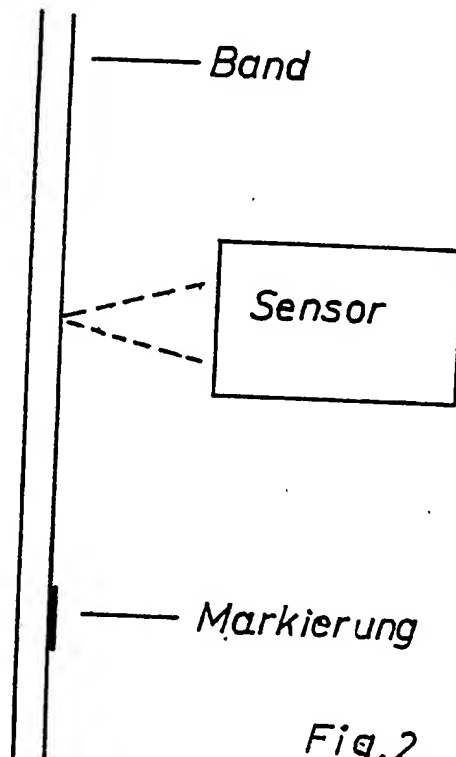


Fig. 2

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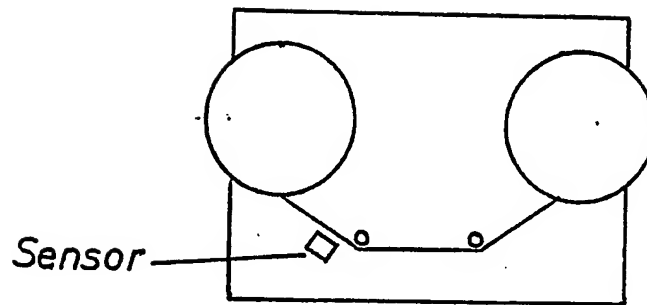


Fig.3

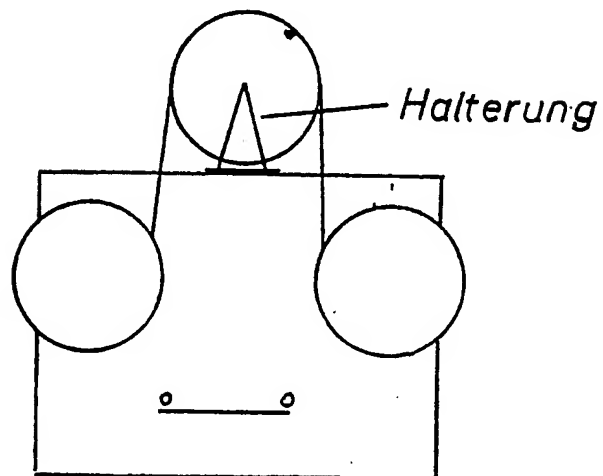


Fig.5

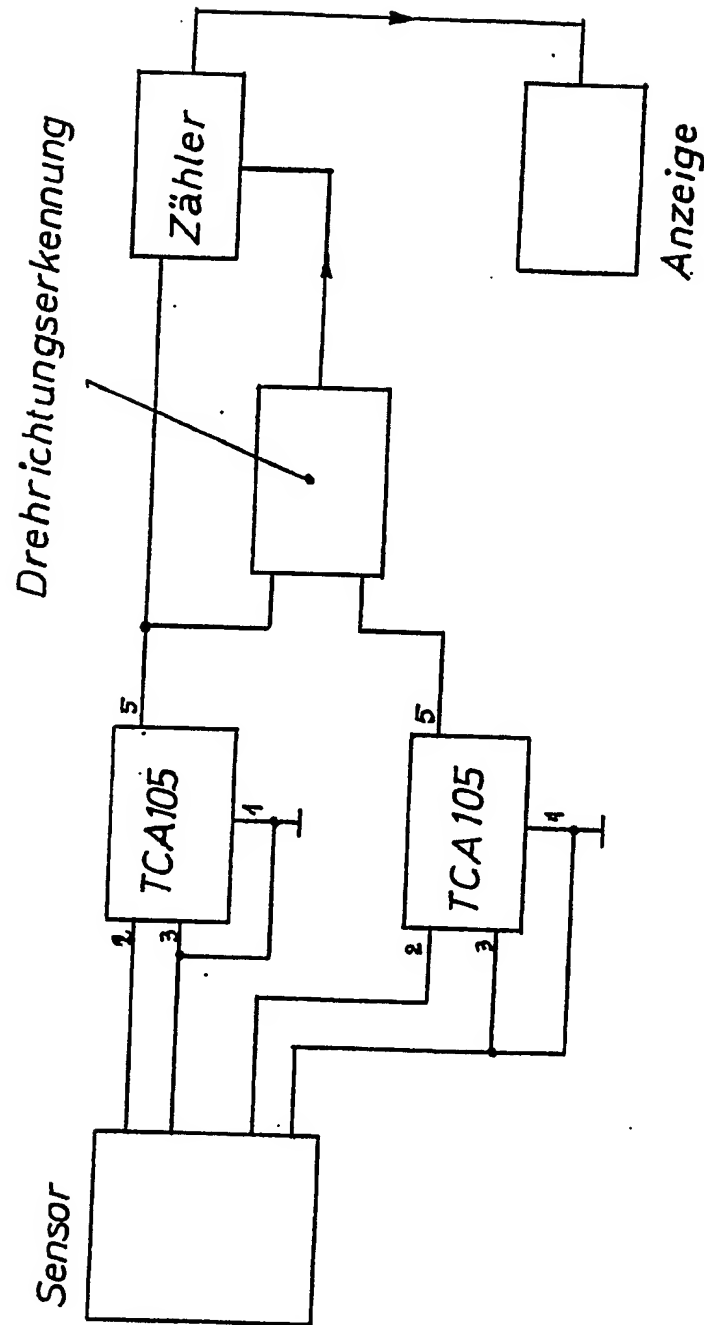


Fig.4